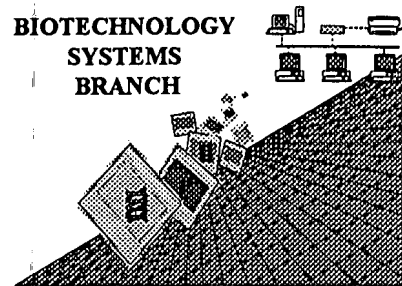


Murphy

RAW SEQUENCE LISTING ERROR REPORT

BIOTECHNOLOGY
SYSTEMS
BRANCH



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following CRF diskette:

Application Serial Number:

09/313,299A

Art Unit / Team No. :

1646

Date Processed by STIC:

12/10/99

THE ATTACHED PRINTOUT EXPLAINS THE ERRORS DETECTED.

PLEASE BE SURE TO FORWARD THIS INFORMATION TO THE APPLICANTS BY EITHER:

1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANTS ALONG WITH A NOTICE TO COMPLY or,

2) CALLING APPLICANTS AND FAXING THEM A COPY OF THE PRINTOUT WITH A NOTICE TO COMPLY

THIS WILL INSURE THAT THE NEXT SUBMISSION RECEIVED FROM THEM WILL BE ERROR FREE.

IF YOU HAVE ANY FURTHER QUESTIONS, PLEASE CALL:

MARK SPENCER 703-308-4212

Raw Sequence Listing Error Summary

ERROR DETECTED SUGGESTED CORRECTION

SERIAL NUMBER:

09/31/2994

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics The number/text at the end of each line "wrapped" down to the next line.
This may occur if your file was retrieved in a word processor after creating it.
Please adjust your right margin to .3, as this will prevent "wrapping".
- 2 Wrapped Aminos The amino acid number/text at the end of each line "wrapped " down to the next line:
This may occur if your file was retrieved in a word processor after creating it.
Please adjust your right margin to .3, as this will prevent "wrapping".
- 3 Incorrect Line Length The rules require that a line not exceed 72 characters in length. This includes spaces.
- 4 Misaligned Amino Acid The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs
Numbering between the numbering. It is recommended to delete any tabs and use spacing between the numbers.
- 5 Non-ASCII This file was not saved in ASCII (DOS) text, as required by the Sequence Rules.
Please ensure your subsequent submission is saved in ASCII text so that it can be processed.
- 6 Variable Length Sequence(s) contain n's or Xaa's which represented more than one residue.
As per the rules, each n or Xaa can only represent a single residue.
Please present the maximum number of each residue having variable length and
indicate in the (ix) feature section that some may be missing.
- 7 PatentIn ver. 2.0 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid
sequence(s) . Normally, PatentIn would automatically generate this section from the
previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section
to the subsequent amino acid sequence.
- 8 Skipped Sequences Sequence(s) missing. If intentional, please use the following format for each skipped sequence:
(OLD RULES) (2) INFORMATION FOR SEQ ID NO:X:
 (I) SEQUENCE CHARACTERISTICS:(Do not insert any headings under "SEQUENCE CHARACTERISTICS")
 (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X:
 This sequence is intentionally skipped

Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s).
- 9 Skipped Sequences Sequence(s) missing. If intentional, please use the following format for each skipped sequence.
(NEW RULES) <210> sequence id number
 <400> sequence id number
 000
- 10 Use of n's or Xaa's Use of n's and/or Xaa's have been detected in the Sequence Listing.
(NEW RULES) Use of <220> to <223> is MANDATORY if n's or Xaa's are present.
 In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 11 Use of <213>Organism Sequence(s) are missing this mandatory field or its response.
(NEW RULES) *1-9 (maybe more)*
- 12 Use of <220>Feature Sequence(s) are missing the <220>Feature and associated headings.
(NEW RULES) Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial" or "Unknown"
 Please explain source of genetic material in <220> to <223> section.
 (See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of new Rules)
- 13 PatentIn ver. 2.0 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted
file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing).
Instead, please use "File Manager" or any other means to copy file to floppy disk.

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1646

PAGE: 1

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/313,299ADATE: 12/10/1999
TIME: 11:08:34

Input Set: I313299A.RAW

This Raw Listing contains the General Information
Section and up to first 5 pages.

1 <110> APPLICANT: Lee, James
2 Wood, William I.
3 <120> TITLE OF INVENTION: VEGF-RELATED PROTEIN
4 <130> FILE REFERENCE: P0963R1D1
5 <140> CURRENT APPLICATION NUMBER: US/09/313,299A
6 <141> CURRENT FILING DATE: 1999-05-17
7 <150> EARLIER APPLICATION NUMBER: US 08/706,054
8 <151> EARLIER FILING DATE: 1996-08-30
9 <150> EARLIER APPLICATION NUMBER: US 60/003,491
10 <151> EARLIER FILING DATE: 1995-09-08
11 <160> NUMBER OF SEQ ID NOS: 12
12 <210> SEQ ID NO 1
13 <211> LENGTH: 2031
14 <212> TYPE: DNA
15 <213> ORGANISM: artificial sequence
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25 gtgttctctg ctgcgcgctg cgctgctccc gggtcctcgc gaggcgccc 450
26 ccgcccgcgc cgccttcgag tccggactcg acctctcgga cgcggagccc 500
27 gacgcgggcg aggccacggc ttatgcaagc aaagatctgg aggagcagtt 550
28 acggtctgtg tccagtgtag atgaactcat gactgtactc taccagaat 600
29 attggaatat gtacaagtgt cagctaagga aaggaggctg gcaacataac 650
30 agagaacagg ccaacctcaa ctcaaggaca gaagagacta taaaatttgc 700
31 tgcagcacat tataatacag agatcttgaa aagtattgat aatgagtgga 750
32 gaaagactca atgcatgcca cgggaggtgt gtatagatgt ggggaaggag 800
33 tttggagtcg cgacaaacac cttctttaa cctccatgtg tgtccgtcta 850
34 cagatgtggg ggttgctgca atagtgggg gctgcagtgc atgaacacca 900
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36 caaggcccca aaccagtaac aatcagttt gccaatcaca cttcctgccc 1000
37 atgcatgtct aaactggatg tttacagaca agttcattcc attattagac 1050
38 gttccctgcc agcaacacta ccacagtgtc aggcagcgaa caagacctgc 1100
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42 gtctgcagag cggggcttcg gcctgccagc tgtggacccc acaaagaact 1300
43 agacagaaac tcatgccagt gtgtctgtaa aaacaaactc tccccagcc 1350
44 aatgtggggc caaccgagaa tttgatgaaa acacatgcca gtgtgtatgt 1400

Does Not Comply
Corrected Diskette Needed

See item 12 on Eva Summary
Sheet

PAGE: 2

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/313,299ADATE: 12/10/1999
TIME: 11:08:34

Input Set: I313299A.RAW

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46 tgaatgtaca gaaagtccac agaaatgctt gttaaaagga aagaagttcc 1500
47 accaccaaac atgcagctgt tacagacggc catgtacgaa ccgccagaag 1550
48 gcttgtgagc caggattttc atatagttaa gaagtgtgtc gttgtgtccc 1600
49 ttcataattgg aaaagaccac aaatgagcta agattgtact gttttccagt 1650
50 tcatcgattt tctattatgg aaaactgtgt tgccacagta gaactgtctg 1700
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53 caaaaggcct cttgtaaaga ctggttttct gccaatgacc aaacagccaa 1850
54 gattttcctc ttgtgatttc tttaaaagaa tgactatata atttatttcc 1900
55 actaaaaata ttgtttctgc attcattttt atagcaacaa caattggtaa 1950
56 aactcactgt gatcaatatt tttatatcat gcaaaatatg tttaaaataa 2000
57 aatgaaaatt gtattaaaaa aaaaaaataa a 2031
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65 taaaaatgaa tgcagaaaca atatttttag tggaataaaa ttatatagtc 150
66 attcttttaa agaaatcaca agaggaaaat cttggctgtt tggctcattg 200
67 cagaaaacca gtctttacaa gaggcctttt gcagatgagc tccagtcctt 250
68 ttctgtaaag ttatccacat gggttcaggaa agacagactt ttgtctttgt 300
69 tagcatggac ccacaagggt ctctctgttc acagacagtt ctactgtggc 350
70 aacacagttt tccataatag aaaatcgatg aactggaaaa cagtacaatc 400
71 ttagctcatt tgtggtcttt tccaatatga agggacacaa cgacacactt 450
72 cttcactata tgaaaatcct ggctcacaag ctttctggcg gttcgtacat 500
73 ggccgtctgt aacagctgca tgtttggtgg tggaacttct ttccttttaa 550
74 caagcatttc tgtggacttt ctgtacattc acaggcacat tttccaggat 600
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77 tttacagaca cactggcatg agtttctgtc tagttctttg tggggtccac 750
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79 tccagctcct tgtttggtcc acagatgtca tggaatccat ctgttgagtc 850
80 atctccagca tccgaggaaa acataaaatc ttcctgagcc aggcactctg 900
81 agatgtgatt attccacatg taattggtgg ggcaggtctt gttcgtgcc 950
82 tgacactgtg gtagtggtgc tggcaggga cgtctaataa tggaatgaac 1000
83 ttgtctgtaa acatccagtt tagacatgca tcggcaggaa gtgtgattgg 1050
84 caaaactgat tgttactggt ttggggcctt gagagagagg cactgtaatt 1100
85 tcaaataacg tcttgetgag gtagctctgt ctgggtgttca tgcactgcag 1150
86 cccctcacta ttgcagcaac cccacatct gtagacggac acacatggag 1200
87 gtttaaagaa ggtgtttgtc gcgactccaa actccttccc cacatctata 1250
88 cacacctccc gtggcatgca ttgagtcttt ctccactcat tatcaatact 1300
89 tttcaagatc tctgtattat aatgtgctgc agcaaatttt atagtctctt 1350
90 ctgtccttga gttgaggttg gcctgttctc tgttatgttg ccagcctcct 1400
91 ttccttagct gacacttgta cattttccaa tattctgggt agagtacagt 1450
92 catgagttca tctacactgg acacagaccg taactgtctc tccagatctt 1500
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PAGE: 3

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/313,299A

DATE: 12/10/1999
TIME: 11:08:34

Input Set: I313299A.RAW

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95      cgggagcagc acagcggcga gcagagaaca cgccacagag aagaagccca 1650
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97      ggcaggggtg ggggcgcggg cggccctgcg aggcgcggg cccctcctgg 1750
98      tccctctccc ccgggctcct cccggcgacc cccctgggc gagccggagg 1800
99      cggcgggagc ggggtccggg ctccgcgttc ccaactttgc agggcgccct 1850
100     cccagccagt accggggaaa ggcggcgggt gtcaggtaaa agcctcacag 1900
101     gaaaccggac atccgagctc cccgcattcg gagccgcga ggtgaagcga 1950
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105     <211> LENGTH: 419
106     <212> TYPE: PRT
107     <213> ORGANISM: artificial sequence
108     <400> SEQUENCE: 3
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111     Ala Ala Leu Leu Pro Gly Pro Arg Glu Ala Pro Ala Ala Ala Ala
112           20           25           30
113     Ala Phe Glu Ser Gly Leu Asp Leu Ser Asp Ala Glu Pro Asp Ala
114           35           40           45
115     Gly Glu Ala Thr Ala Tyr Ala Ser Lys Asp Leu Glu Glu Gln Leu
116           50           55           60
117     Arg Ser Val Ser Ser Val Asp Glu Leu Met Thr Val Leu Tyr Pro
118           65           70           75
119     Glu Tyr Trp Lys Met Tyr Lys Cys Gln Leu Arg Lys Gly Gly Trp
120           80           85           90
121     Gln His Asn Arg Glu Gln Ala Asn Leu Asn Ser Arg Thr Glu Glu
122           95          100          105
123     Thr Ile Lys Phe Ala Ala Ala His Thr Asn Thr Glu Ile Leu Lys
124          110          115          120
125     Ser Ile Asp Asn Glu Trp Arg Lys Thr Gln Cys Met Pro Arg Glu
126          125          130          135
127     Val Cys Ile Asp Val Gly Lys Glu Phe Gly Val Ala Thr Asn Thr
128          140          145          150
129     Phe Phe Lys Pro Pro Cys Val Ser Val Tyr Arg Cys Gly Gly Cys
130          155          160          165
131     Cys Asn Ser Glu Gly Leu Gln Cys Met Asn Thr Ser Thr Ser Tyr
132          170          175          180
133     Leu Ser Lys Thr Leu Phe Glu Ile Thr Val Pro Leu Ser Gln Gly
134          185          190          195
135     Pro Lys Pro Val Thr Ile Ser Phe Ala Asn His Thr Ser Cys Arg
136          200          205          210
137     Cys Met Ser Lys Leu Asp Val Tyr Arg Gln Val His Ser Ile Ile
138          215          220          225
139     Arg Arg Ser Leu Pro Ala Thr Leu Pro Gln Cys Gln Ala Ala Asn
140          230          235          240
141     Lys Thr Cys Pro Thr Asn Tyr Met Trp Asn Asn His Ile Cys Arg
142          245          250          255
143     Cys Leu Ala Gln Glu Asp Phe Met Phe Ser Ser Asp Ala Gly Asp
144          260          265          270

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PAGE: 4

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/313,299A

DATE: 12/10/1999
TIME: 11:08:34

Input Set: I313299A.RAW

```

145      Asp Ser Thr Asp Gly Phe His Asp Ile Cys Gly Pro Asn Lys Glu
146                      275                      280                      285
147      Leu Asp Glu Glu Thr Cys Gln Cys Val Cys Arg Ala Gly Leu Arg
148                      290                      295                      300
149      Pro Ala Ser Cys Gly Pro His Lys Glu Leu Asp Arg Asn Ser Cys
150                      305                      310                      315
151      Gln Cys Val Cys Lys Asn Lys Leu Phe Pro Ser Gln Cys Gly Ala
152                      320                      325                      330
153      Asn Arg Glu Phe Asp Glu Asn Thr Cys Gln Cys Val Cys Lys Arg
154                      335                      340                      345
155      Thr Cys Pro Arg Asn Gln Pro Leu Asn Pro Gly Lys Cys Ala Cys
156                      350                      355                      360
157      Glu Cys Thr Glu Ser Pro Gln Lys Cys Leu Leu Lys Gly Lys Lys
158                      365                      370                      375
159      Phe His His Gln Thr Cys Ser Cys Tyr Arg Arg Pro Cys Thr Asn
160                      380                      385                      390
161      Arg Gln Lys Ala Cys Glu Pro Gly Phe Ser Tyr Ser Glu Glu Val
162                      395                      400                      405
163      Cys Arg Cys Val Pro Ser Tyr Trp Lys Arg Pro Gln Met Ser
164                      410                      415                      419

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<210> SEQ ID NO 4

<211> LENGTH: 147

<212> TYPE: PRT

<213> ORGANISM: artificial sequence

<400> SEQUENCE: 4

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172      Leu Tyr Leu His His Ala Lys Trp Ser Gln Ala Ala Pro Met Ala
173                      20          25          30
174      Glu Gly Gly Gly Gln Asn His His Glu Val Val Lys Phe Met Asp
175                      35          40          45
176      Val Tyr Gln Arg Ser Tyr Cys His Pro Ile Glu Thr Leu Val Asp
177                      50          55          60
178      Ile Phe Gln Glu Tyr Pro Asp Glu Ile Glu Tyr Ile Phe Lys Pro
179                      65          70          75
180      Ser Cys Val Pro Leu Met Arg Cys Gly Gly Cys Cys Asn Asp Glu
181                      80          85          90
182      Gly Leu Glu Cys Val Pro Thr Glu Glu Ser Asn Ile Thr Met Gln
183                      95          100          105
184      Ile Met Arg Ile Lys Pro His Gln Gly Gln His Ile Gly Glu Met
185                      110          115          120
186      Ser Phe Leu Gln His Asn Lys Cys Glu Cys Arg Pro Lys Lys Asp
187                      125          130          135
188      Arg Ala Arg Gln Glu Lys Cys Asp Lys Pro Arg Arg
189                      140          145          147

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<210> SEQ ID NO 5

<211> LENGTH: 149

<212> TYPE: PRT

<213> ORGANISM: artificial sequence

<400> SEQUENCE: 5

PAGE: 5

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/313,299ADATE: 12/10/1999
TIME: 11:08:34

Input Set: I313299A.RAW

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195 Met Pro Val Met Arg Leu Phe Pro Cys Phe Leu Gln Leu Leu Ala
196      1              5              10              15
197 Gly Leu Ala Leu Pro Ala Val Pro Pro Gln Gln Trp Ala Leu Ser
198              20              25              30
199 Ala Gly Asn Gly Ser Ser Glu Val Glu Val Val Pro Phe Gln Glu
200              35              40              45
201 Val Trp Gly Arg Ser Tyr Cys Arg Ala Leu Glu Arg Leu Val Asp
202              50              55              60
203 Val Val Ser Glu Tyr Pro Ser Glu Val Glu His Met Phe Ser Pro
204              65              70              75
205 Ser Cys Val Ser Leu Leu Arg Cys Thr Gly Cys Cys Gly Asp Glu
206              80              85              90
207 Asn Leu His Cys Val Pro Val Glu Thr Ala Asn Val Thr Met Gln
208              95              100             105
209 Leu Leu Lys Ile Arg Ser Gly Asp Arg Pro Ser Tyr Val Glu Leu
210              110             115             120
211 Thr Phe Ser Gln His Val Arg Cys Glu Cys Arg Pro Leu Arg Glu
212              125             130             135
213 Lys Met Lys Pro Glu Arg Cys Gly Asp Ala Val Pro Arg Arg
214              140             145             149

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217 <212> TYPE: DNA
218 <213> ORGANISM: artificial sequence
219 <220> FEATURE:
220 <221> NAME/KEY: unknown
221 <222> LOCATION: 74
222 <223> OTHER INFORMATION: unknown base
223 <400> SEQUENCE: 6

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W-->

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226 tctctctcaa ggccccaac cagtaacaat cagttttgcc aatcacactt 150
227 cctgccgatg catgtctaaa ctggatgttt acagacaagt tcattccatt 200
228 attagacgtt ccctgccagc aacactacca cagtgtcagg cagcgaacaa 250
229 gacctgcccc accaattaca tgtggaataa tcacatctgc agatgcctg 299

```

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230 <210> SEQ ID NO 7
231 <211> LENGTH: 50
232 <212> TYPE: DNA
233 <213> ORGANISM: artificial sequence
234 <400> SEQUENCE: 7

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237 <211> LENGTH: 50
238 <212> TYPE: DNA
239 <213> ORGANISM: artificial sequence
240 <400> SEQUENCE: 8

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241 gcatctgcag atgtgattat tccacatgta attggtgggg caggtcttgt 50

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```

242 <210> SEQ ID NO 9
243 <211> LENGTH: 8
244 <212> TYPE: PRT

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*please correct this error
in subsequent
sequences*

PAGE: 6

VERIFICATION SUMMARY
PATENT APPLICATION US/09/313,299A

DATE: 12/10/1999
TIME: 11:08:34

Input Set: I313299A.RAW

Line ? Error/Warning

Original Text

225 W "N" or "Xaa" used: Feature required

aacaccagca cgagctacct cagnaagacg ttatttga

Application No.: 09313299

NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE DISCLOSURES

The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 C.F.R. 1.821 - 1.825 for the following reason(s):

- ☒ 1. This application clearly fails to comply with the requirements of 37 C.F.R. 1.821-1.825. Applicant's attention is directed to these regulations, published at 1114 OG 29, May 15, 1990 and at 55 FR 18230, May 1, 1990.
- ☐ 2. This application does not contain, as a separate part of the disclosure on paper copy, a "Sequence Listing" as required by 37 C.F.R. 1.821(c).
- ☐ 3. A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 C.F.R. 1.821(e).
- ☒ 4. A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 C.F.R. 1.822 and/or 1.823, as indicated on the attached copy of the marked-up "Raw Sequence Listing."
- ☐ 5. The computer readable form that has been filed with this application has been found to be damaged and/or unreadable as indicated on the attached CRF Diskette Problem Report. A Substitute computer readable form must be submitted as required by 37 C.F.R. 1.825(d).
- ☐ 6. The paper copy of the "Sequence Listing" is not the same as the computer readable form of the "Sequence Listing" as required by 37 C.F.R. 1.821(e).
- ☐ 7. Other: _____

Applicant Must Provide:

- ☒ An initial or ~~substitute~~ computer readable form (CRF) copy of the "Sequence Listing".
- ☐ An initial or substitute paper copy of the "Sequence Listing", as well as an amendment directing its entry into the specification.
- ☒ A statement that the content of the paper and computer readable copies are the same and, where applicable, include no new matter, as required by 37 C.F.R. 1.821(e) or 1.821(f) or 1.821(g) or 1.825(b) or 1.825(d).

For questions regarding compliance to these requirements, please contact:

For Rules Interpretation, call (703) 308-4216

For CRF Submission Help, call (703) 308-4212

For PatentIn software help, call (703) 308-6856

PLEASE RETURN A COPY OF THIS NOTICE WITH YOUR RESPONSE